3M Center St. Paul, MN 55144-1000 651 733 1110

8EHQ-0503-15372 May 23, 2003

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Information

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> Document Processing Center (7407) Office of Pollution, Prevention and Toxics U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, N. W. Washington, DC 20460

Attention: Section 8(e) Coordinator

TSCA Section 8(e) Submissions Re:

Dear Sir/Madam:

3M Company ("3M") requests that EPA place the attached studies in the TSCA Section 8(e) docket. We have included an index for these studies identifying the study title, test substance and CAS number. A CBI version of this index and the studies also is being submitted today pursuant to EPA procedures.

3M has concluded that data in these studies may not be, strictly speaking, "corroborative" of previously reported or published information as defined in EPA's reporting guidance or otherwise potentially may warrant 8(e) submission based on EPA's reporting guidance.

3M appreciates EPA's attention to this matter. Please contact the undersigned if you have any questions or require further information regarding this submission.

Very truly yours,

Dr. Katherine E. Reed (971) Dr. Katherine E. Reed, Ph.D.

Executive Director

3M Environmental Technology

And Safety Services

(651) 778-4331

kereed@mmm.com

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SUBMISSION BY 3M COMPANY ON MAY 23, 2003

		Artshert	
Ι,	Exploratory 28-Day Oral Toxicity Study with T-7250, T-7251, T-7252, T-7253, T-7254, and T-7255 by Daily Gavage in the Rat Followed by a 14/28-Day Recovery Period (NOTOX Project 264656)	Separate studies for each chemical: [CBI removed]; Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6 - Tridecafluoro-n-(2-Hydroxyethyl)-N-Methyl - 100%; 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-Nonafluoro-N-n(2-Hydroxyethyl)-N-Methyl - 100%	[CBI removed]; 68555- 75-9; 34454-97-2
2 .	Exploratory 28-Day Oral Toxicity Study with T-7125, T-7126, T-7127, T-7128, and T-7129 by Daily Gavage in the Rat Followed by a 14/28-Day Recovery Period (NOTOX Project 256679)	Cyclohexanesulfonic acid, decafluoro(pentafluormethyl)-, potassium salt (CAS No. 67584-42-3) - 66-70%; Cyclohexanesulfonic acid, decafluoro(trifuloromethyl)-, potassium salt (CAS No. 68156-07-0) - 18-22%; Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt (CAS No. 68156-01-4) - 9-13%; Cyclohexanesulfonic acid, undecafluoro-, potassium salt (CAS No. 3107-18-4) - 1-3%	67584-42-3; 68156-07-0; 68156-01-4; 3107-18-4
3.	Subchronic 90-Day Oral Toxicity with T-6524 by Daily Gavage in the Rat Followed by a 28-Day Recovery Period	65% Sulfonamides, C4-8-alkane, perfluoro, N-(3- (dimethyloxidoamino)propyl), potassium CAS#179005-06-2; 20% Amine oxide C8F17SO2NH(->O)CH2CH2CH2N(CH3)2; 15% C3- C7 K-salts of amine oxides CNF2N+1SO2N-)(+K)(- >O)CH2CH2CH2N(CH3)2	179005-06-2
9.	A Study for Effects on Embryofoetal Development of the Rat (Inhalation Administration)	[CBI removed]	[CBI removed]
5.	Evaluation of the Ability of T-5870 to Induce Chromosome Aberrations in Cultured Peripheral Human Lymphocytes (with Independent Repeat)	2-ethoxy ethyl acrylate	106-74-1
6.	Chromosomal Aberration Test of T-6695 Using Cultured Mammalian Cells	[CBI removed]	[CBI removed]
7.	Acute Oral Toxicity Study in Rats (Exp. No. 920584) (Test Article: Intermedio 1249)	2-methyl-2-butanone-(4-sulfonamidophenyl)- hydrazone; Molecular Formula: C11H17N3O2S	Unknown ·
G.	Acute Oral Toxicity Study in Rats (Exp. No. 930321) (Test Article: 501149)	3H-pyrazol-3-0ne, 2-(4-aminophenyl), 4-dihydro-5- (1-pyrrolidinyl)	30707-77-8
9.	Skin Corrosivity Study of T-5799 in Rabbits (DOT/UN Regulations)	1-Octanesulfonyl Fluoride - 87.5%, Other Alkyl Sulfonyl Fluorides and Acidic Impurities - 11%, Water - 5.4%, Octanesulfonyl Chloride - 1.4%	40630-63-5; Unknown; 7732-18-5; 7795-95-1
10.	Skin Corrosivity Study of T-5800 in Rabbits (DOT/UN Regulations)	1-Octanesulfonyl Fluoride - 87.5%, Other Alkyl Sulfonyl Fluorides and Acidic Impurities - 11%, Water - 5.4%, Octanesulfonyl Chloride - 1.4%.	40630-63-5; Unknown; 7732-18-5; 7795-95-1
11.	Primary Dermal Irritation/Corrosion Study of T- 5635 in Rabbits (OECD Guidelines)	[CBI removed]	[CBI removed]
12.	Primary Dermal Irritation/Corrosion Study of T- 5897 in Rabbits (OECD Guidelines)	Isophthaloylbis (2-methylarziridine) - 97%, Toluene - 2%, Xylene - 0.5%.	7652-64-4; 108-88-3; 1330-20-7
13.	Skin Corrosivity Study of T-7030.1 in Rabbits (with Protocol TP4206 attached)	[CBI removed]	[CBI removed]
14.	Dermal Sensitization Study of T-5474 in Guinea Pigs - Maximization Test (EPA Guidelines)	Water (CAS No. 7732-18-5) - 68.4%; Dodecylbenzenesulfonic Acid (CAS No. 27176-87-0) - 17.5%; Polymethacrylate (CAS No. 25087-26-7) - 11.76%; Sodium Hydroxide (CAS No. 1310-73-2) - 2.3%; Unknown - 0.040%	7732-18-5; 27176-87-0; 25087-26-7; 1310-73-2

SUBMISSION BY 3M COMPANY ON MAY 23, 2003

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15	Dermal Sensitization Study of T-5894 in Guinea Pigs - Maximization Test (EC Guidelines) (with Protocol TP6164E attached)	[CBI removed]	[CBI removed]
16.	Dermal Sensitization Study of T-6006 in Guinea Pigs - Closed Patch Technique (EPA Guidelines)	Dimethyltetradecylamine Oxide - 55%, Oleamidopropyldimethylamine - 18%, 1-Methoxy -2- Propanol - 5%, Citronellol - 5%, Polyethylene Glycol - < 3%, Alpha - (Carboxymethyl) - Omega - (Dodecyloxyl) Poly (Oxyethylene) Sodium Salt3%, Trialkyl Amine Oxide - 2%, Isopropyl Alcohol - 2%, Fragrance Sozio SZ 5467 - 2%, Water - 1%, Acetic Acid - 1%, Miscellaneous ingredients at less than 1%	3332-27-2; 109-28-4; 107-98-2; 106-22-9; 25322-68-3; 33939-64-9; 7128-91-8; 67-63-0; Unknown; 7732-18-5; 64- 19-7
17.	Dermal Sensitization Study of T-7280 in Guinea Pigs - Closed Patch Technique (with Protocol TP2008 attached)	[CBI removed]	[CBI removed]
14.	Acute Oral Toxicity Study of T-6735 in Rats (OECD Guidelines) (with Protocol TP2069 attached)	4,6-dibromo-2-isopropyl phenol	Unknown
19.	Acute Toxicity to Daphnia Magna	[CBI removed]	[CBI removed]
70.	Evaluation of the Mutagenic Activity of T-5870 in an In Vitro Mammalian Cell Gene Mutation Test with L5178Y Mouse Lymphoma Cells (with Independent Repeat)	2-ethoxy ethyl acrylate	106-74-1
21.	Acute Eye Irritation Study in New Zealand White Rabbits (Exp. No. 920364) (Test Article: 586442-50055)	HP=Benzothiazolium (9CI); SB=3-ethyl-2-((3-(3-(3-ethyl-2(3H)-benzothiazolylidene)-1-propenyl)-5,5-dimethyl-2-cyclohexen-1-ylidene)methyl)-6-methoxy-5-methyl-; NM=lodide; Molecular Formula: C32H37N2OS2.I	87699-86-3
22.	Acute Eye Irritation Study in New Zealand White Rabbits (Exp. No. 940151) (Test Article: 580066)	Thiazolium, 3-ethyl-2-[3-(3-ethyl-2-thiazolidinylidene)-1-propenyl]-4,5-dihydro-,iodide; Molecular Formula: C13H21N2S2.I	3065-71-2
23	Acute Eye Irritation Study in New Zealand White Rabbits (Exp. No. 930529) (Test Article: 1268)	3-ethoxy-carbonyl-methyl-4-etoxy-methylidene- rhodanine; Molecular Formula: C10H13NO4S2	Unknown
24	Acute Eye Irritation Study in New Zealand White Rabbits (Exp. No. 920582) (Test Article: 1248)	C6H10CIN3O2S	Unknown
25.	One Generation Reproduction Study of PFOS - Mevalonic Acid/Cholesterol Challenge and NOEL Investigation in Rats	Perfluorooctane Sulfonic Acid Potassium Salt	2795-39-3
26	Augmented acute (4-hour) inhalation toxicity study with T-6905 in rats	2% solids of fluorochemical fatty acid ester in water	306974-63-0



a CORNING Laboratory Services Company

FINAL REPORT

Roger G. Perkins, PhD 3M Toxicology Services Building 220-2E-02 St. Paul, MN 55144-1000

HWI Number: 40202402

Study Title:

Primary Dermal Irritation/Corrosion Study of T-5897 in Rabbits (OECD Guidelines)

Windles No Co

Signed:

Steven M. Glaza Study Director Acute Toxicology Date

608-241-7227

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- Reports are submitted to clients on a confidential basis. No reference to the work, the results, or Hazleton Wisconsin (Hazleton), in any form of advertising, news release, or other public announcements may be made without written authorization from Hazleton.
- The term "Less Than" or the symbol (<) is used to signify the lower limit of quantitation of the procedure under the
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The term "None Detected" is used to report assay results where detection limits have been established for the method but acceptable residue levels have not been defined by the industry or by federal law or when the method does not define detection limits. The term will specify the fixed amount of sample employed in the analysis and does not imply that traces of the analyte were present.

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HWI Number: 40202402

Sample: T-5897

Rose M. Bridge Report Supervisor

KEY PERSONNEL

Acute Toxicology	Laboratory Animal Medicine
Steven M. Glaza Study Director Manager	Cindy J. Cary, DVM Diplomate, ACLAM Supervisor
Steven R. Sorenson Study Coordinator	
Patricia Padgham In-life Supervisor	

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Sample: T-5897

OBJECTIVE

The objective of this study was to assess the relative level of primary skin irritation/corrosion of a test material on rabbits under semioccluded conditions.

All procedures used in this study are in compliance with the Animal Welfare Act Regulations. In the opinion of the Sponsor and study director, the study did not unnecessarily duplicate any previous work.

TEST MATERIAL

<u>Identification</u>

The test material was identified as T-5897 and described as a viscous, cloudy, white liquid (at ambient temperature).

Purity and Stability

The Sponsor assumes responsibility for purity and stability determinations (including under test conditions).

Storage and Retention

The test material was stored frozen. Any unused test material will be returned to the Sponsor after issuance of the final report according to Hazleton Wisconsin (HWI) Standard Operating Procedure (SOP).

Safety Precautions

The test material handling procedures were according to HWI SOPs and policies.

TEST SYSTEM

Test Animal

Adult albino rabbits of the Hra: (NZW)SPF strain were procured from HRP, Inc. and maintained at the Hazleton Wisconsin facility at 3802 Packers Avenue, Madison, Wisconsin. Animal husbandry and housing at HWI comply with standards outlined in the "Guide for the Care and Use of Laboratory Animals". The animals were individually housed in screen-bottom cages in temperature- and humidity-controlled quarters, provided access to water ad libitum and a measured amount of Laboratory Rabbit Diet HF #5326, PMI Feeds, Inc., and held for an acclimation period of at least 7 days. The feed is routinely analyzed by the manufacturer for nutritional components and environmental contaminants.

Sample: T-5897

Samples of the water are periodically analyzed by HWI. There were no known contaminants in the feed or water that would have interfered with or affected the results of the study.

Three female acclimated animals, weighing from 2,012 to 2,185 g, were selected and maintained during the study in the same manner as for the acclimation period. If variations from the required temperature and humidity conditions existed, they were documented and considered to have had no adverse effect on the study outcome. Animals were identified by animal number and corresponding ear tag. On the day before treatment, the back and/or flanks of each animal were clipped free of hair to obtain an unblemished skin site. The animals were clipped as needed throughout the study.

Justification for Species Selection

Historically, the New Zealand White albino rabbit has been the animal of choice for evaluating the effect of chemicals on the skin.

PROCEDURES

Preparation of Test Material

The test material was brought to room temperature and administered as received. The pH of the test material was not able to be determined.

Treatment

The test material was applied to the intact skin on each animal's back (approximate exposure area of 6.25 cm²) in the amount of 0.5 mL. The area of application was covered with a 2.5-cm x 2.5-cm gauze patch secured with paper tape, loosely overwrapped with Saran Wrap®, and secured with Elastoplast® tape to provide a semiocclusive dressing. Collars were not used to restrain the test animals during the 4-hour exposure period.

At the end of the 4-hour exposure period, the patches were removed and the test sites were washed using tap water and disposable paper towels. The test material was removed from the test sites as thoroughly as possible without irritating the skin.

Reason for Route of Administration

Historically, the dermal route has been the route of choice based on the method of Draize.³

Sample: T-5897

Observations

Approximately 30 minutes after removal of the test material, the degree of erythema and edema at each test site was read according to the Draize technique (recorded as the 4-hour score). Subsequent examinations were made at 24, 48, 72, and 96 hours and Days 7, 14, and 21. The untreated skin of each animal was used for comparison.

Animals were weighed just before test material administration and at weekly intervals throughout the study.

Termination

At termination of the experimental phase, all animals were designated to be euthanized and discarded.

Statistical Analyses

No statistical analyses were required by the protocol.

Location of Raw Data, Records, and Final Report

The raw data, records, and a copy of the final report will be retained in the archives of HWI in accordance with HWI SOP.

Sample: T-5897

SUMMARY OF RESULTS

Test Animal: Albino Rabbits - Hra:(NZW)SPF Source: HRP, Inc., Kalamazoo, MI Date Animals Received: 03/09/94

Experimental Start Date: 03/16/94 Experimental Termination Date: 04/06/94

Individual Dermal Irritation Scores

					Eryt	hema	l ,						E	dema			
Animal				Hour				Day				Hou	r .			Day	,
Number	<u>Sex</u>	4	<u>24</u>	<u>48</u>	<u>72</u>	<u>96</u>	7	<u>14</u>	21	4	24	<u>48</u>	<u>72</u>	<u>96</u>	Z	14	21
F50250	F	1	2 .	2 ^b	2 ^b	2 ^b	1 ^d	0	0_	0	3	3	2	2	0	0	0
F50251	F	1	3 ^{a, b}	4 ⁿ	4 ⁿ	4 ⁿ	4 ⁿ	2 [×]	1 ^s	1	4	4	2	2	1	1	1
F50252	F	2	3ª,b	3 ⁿ	4 ⁿ	4 ⁿ	4 ⁿ	l ^{s,c}	Os,c	1	4	3	2	2	2	1	1

- Subcutaneous hemorrhaging.
- ь Blanching.
- c Denuded area.
- a Desquamation.
- Possible necrotic area.
- Possible scar tissue.
- x Exfoliation.

Average Primary Dermal Irritation Scores*

Observation Period	Average <u>Score</u>
4 Hour	2.0
24 Hour	6.3
48 Hour	6.3
72 Hour	5.3
96 Hour	5.3
Day 7	4.0
Day 14	1.7
Day 21	1.0

The average primary dermal irritation score is the total dermal irritation score for all the animals (erythema and edema) divided by the number of test sites (3) at each observation period.

Sample: T-5897

DISCUSSION

Application of T-5897 to the skin of rabbits under 4-hour semioccluded conditions resulted in well-defined to severe erythema and moderate to severe edema reactions. Subcutaneous hemorrhaging, blanching, possible necrotic areas, desquamation, exfoliation, possible scar tissue, and denuded areas were also observed. Irritation continued to be present in two animals at the Day 21 observation.

REFERENCES

- 1. "Acute Dermal Irritation/Corrosion," Organisation for Economic Cooperation and Development's Guidelines for Testing of Chemicals, Section 404 (adopted May 12, 1981).
- NIH Publication No. 86-23 (revised 1985).
- Draize, J. H., "Primary Irritation of the Skin," In: Appraisal of the Safety of Chemicals in Foods, Drugs and Cosmetics - Dermal Toxicity, Association of Food and Drug Officials of the U.S., pp. 46-47 (1959).

Sample: T-5897

APPENDIX

Raw Data

PERSONNEL SIGNATURE SHEET ACUTE TOXICOLOGY

<u>Name</u>	<u>Job Title</u>	<u>Signature</u>	7
Rose M. Bridge	Report Supervisor	Bou M. Bridge	Initials
Anthony Cass	Lab Animal Technician	0	PB CO
Cindy J. Cary, DVM	Lab Animal Veterinarian	Cindia J. Cares	ac
Donna J. Clemons, DVM, MS			3
John A. Disch	Lab Animal Caretaker	adm of Disch	to
Charles W. Fritz	Lab Animal Technician	Charles W. Fritz,	<u>50</u> C7
Kari Garfoot	Lab Animal Technician	Kari Warloot	<u></u>
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Kevin Grossman	Lab Animal Caretaker	Kein Gleman	<u> </u>
Jeff Hicks	Lab Animal Technician	14118	
Sharen L. Howery	Research Assistant	Alaren Housen	SU.
Wayne A. Madison	Supervisor	Dame a Madison	warm.
Doug McConnell	Lab Animal Technician	Dough R MClonel	Don
Eileen McConnell	Staff Assistant	Eiles Mk Cornel	0
Bud McDonald	Study Coordinator	Bud Mc Nonals	Bres
Albert Oleson	Lab Animal Caretaker	allet Oleson	HO
Patricia Padgham	In-life Supervisor	Patrin Padela	N
Steven R. Sorenson	Study Coordinator	C 10	SZS
Annette R. Turner	Staff Assistant	annette & June	A Y
Tamra L. Walker	Staff Assistant 🔾	James L. Maines	W)
Lana M. Weeden	Staff Assistant	Lara H. Needer	MW
Heather M. Weber	Lab Animal Caretaker	Harther W. Weller	HW
Sawce Griffiths	Lab Hujmal Caretaker	Janu Suffith	J6
Nikolai Larbalesfier	Lab Animal Carebbar	The habali	NL
Lanela J. Kluth	Lah Animal Caretaker	Jamela V. Klits	P.J.K
(G2710-06-93)	Lab Animal Technician	Carol Koch Ckoch	ck

DERMAL IRRITATION/BODY WEIGHT RECORD (4-HOUR EXPOSURE)

Test Material: T - $S897$ (t_27 - c) Physical Description: ViSCOLAS CLOUIN 111)HITE 1101110	
Moistened with 0.9% Saline; Mfg/Lo	/ NA / NA
pH Result: 4 with Corning pH Meter No. 05510 Skin Preparation:	Skin Preparation:intact A.A. Abraded (with a clipper blade)
Species/Source Strain/Location: Rabbit/Hra: (NZW)SPF/ ALL Date Animals Received: 3-9-94	Initiated in Room No.: 104

Animal Numbe	Animal Number/Sex ES		d	251 0252			Technician	Recorded By	1999/94 Date	Scale Used A !
Initial Body Weight (g)	/ Weight (g)	2138	2012	2138 2012 2185			3	KS	3/10	CSINCHIOS
Day 7 Body Weight (g)	feight (g)	2363	aisa	Sa 2303			۵۵	۵۵	3-23	501440453
Observations									, ·	Irritation Score
r e	Erythema			7					1 0	
	Edema	0		l			E	B	K3 3/16	2.0 5.37.94
2.4 Hour	Erythema	2	348	346						שם פריביים
50C + 2	Edema	ઈ	17	1			<u>ر</u>	য	R 3/17	63 (29.17.94
riich av	Erythema	28	44	346						10 55 570
9	Edema	3	H	9			S)	য	7//8	6.3 6.3.04
72 Hours	Erythema	26	7	N						70 00 0000
37	Edema	7	7	7			<u>ي</u>	ろ	919	53 KJ 3-19-94
Ag Hour	Erythema	2.8	74	ואלי		/			14.	1/1 7 2-3 C-94
	Edema	2	2	7		/	હ્ય	S	مرا ر	5.3 003-13-44
Day 7	Erythema	01	3	3						かっしてエンノ・
	Edema	٥	ı	Ø			* √	αc	3-23	4.0 003-33-94

O SPELLING GEROR Storage conditions of test material: FREEZER (REMOVED TO ACKRED OF DATA NOT ACKRED OF STORY)

NA Not applicable.

A Subcutaneous hemorrhage.

Unable to determine pH.

19-51-0 S

NA Not applicable.

A Subcutaneous hemorrhage.

B Blanching.

N Possible necrotic area.

B Blanching.

A Possible necrotic area.

D-DeSquamatib. ac 3-33-94

Animal(s) shaved prior to dermal observation by technician.

Animal(s) shaved prior to dermal observation by technician.

Animals were weighed and appeared normal before test material administration on the day of dosing. Technician/Date: Surviving animals designated for sacrifice and discard. Technician/Date: 1991

(\$2/12-09-92)

Final data review by/Date: 27/ 3-36-99

HNI No.: YOROGYOS

DERMAL IRRITATION/BOOT WEIGHT RECORD (4-HOUR EXPOSURE) (CONTINUED)

Test Material: T-5897

	and ie used A & D
ac 3-30 cs/	CSWYYGS
3	
1 - CS/00 CS	59440953
	TIT I LALL ON SCOTA
	164-2-94
3-30	1. 1 56 3-30-94
7.7	1 674-7-84
9	1.0 ac 4-6-44
	/
C 4056 Late Coar 4166 10 0 0 32 011	
	ας* ας 4-6

s-possible scar rissur ac 3-30-44 c-behuded area ac 3-30-94

A Subcutaneous hemorrhage. C-DeNuded area as 3-8 Blanching.
N Possible necrotic area.
X-exfoliation as 3-30-94
* Animal(s) shaved prior to dermal observation by technician.

Surviving animals designated for sacrifice and discard. Technician/Date: __GC / Կ-6-94

HWI No.: 40202402

Primary Dermal Irritation Scoring Scale (Draize Technique)

(1)	Erythema and Eschar Formation	
	No erythema Very slight erythema (barely perceptible) Well-defined erythema Moderate to severe erythema Severe erythema (beet redness) to slight eschar formation (injuries in depth)	0 1 2 3
	Highest possible erythema score	4
(2)	Edema Formation	
	No edema Very slight edema (barely perceptible) Slight edema (edges are well defined by	0 1
	definite raising) Moderate edema (raised approximately 1 mm) Severe edema (raised approximately 1 mm and	2
	extending beyond area of exposure)	4
	Highest possible edema score	4

(S5/01-07-91)

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